	Application No.	Applicant(s)	· · · · · · · · · · · · · · · · · · ·
Notice of Allowability	09/916,241	VAAL ET AL.	
	Examiner	Art Unit	
	Jonathan S. Crepeau	1746	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in) or other appropriate commu	this application. If not include nication will be mailed in due	ded e course. THIS
1. X This communication is responsive to amendment of 2/27/6	<u>04</u> .		•
2. ⊠ The allowed claim(s) is/are <u>1-43</u> .			
3. ☑ The drawings filed on <u>25 July 2001</u> are accepted by the E	xaminer.		
 4. Acknowledgment is made of a claim for foreign priority u a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.	e been received. e been received in Application cuments have been received of this communication to file	n No in this national stage applica	
5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which giv			NOTICE OF
6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must (a) ☐ including changes required by the Notice of Draftspers 1) ☐ hereto or 2) ☐ to Paper No./Mail Date (b) ☐ including changes required by the attached Examiner Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the sheet in	son's Patent Drawing Review - 's Amendment / Comment or i	n the Office action of calculate the drawings in the front (not the	e back) of
 DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT 			Note the
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 1/7/04 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview Su Paper No./N 7. ☑ Examiner's A	Mail Date Amendment/Comment Statement of Reasons for All	,

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DETAILED ACTION

Examiner's Amendment

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

IN THE SPECIFICATION:

On page 25, line 12, after "(Atty. Docket No. 130109.427)" insert --, now abandoned--.

Terminal Disclaimer

2. The terminal disclaimer filed on February 27, 2004 disclaiming the terminal portion of any patent granted on this application which would extend beyond the expiration date of Serial No. 09/916,240 has been reviewed and is accepted. The terminal disclaimer has been recorded.

Allowable Subject Matter

- 3. Claims 1-43 are allowed.
- 4. The following is an examiner's statement of reasons for allowance (the reasons are identical to those set forth in the previous Office action but are reiterated herein):

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Each of independent claims 1, 12, 21, 31, and 38 recites method or apparatus for measuring the oxygen concentration of ambient air in the vicinity of a fuel cell system, and ceasing operation of the system when the measured oxygen concentration falls below a threshold value. The art of record does not teach or fairly suggest these limitations. JP 8-185879 discloses a method in which nitrogen is flowed through a fuel electrode flow field and a decrease in oxygen concentration on the air electrode side is used to detect gas leakage through the electrolyte. The reference is deficient because the oxygen concentration of the ambient air surrounding the fuel cell is not measured and the fuel cell is already in a shutdown state when the method is performed. JP 8-88014 discloses monitoring the oxygen concentration of an anode exhaust gas and shutting down the system when the oxygen level is above a specified value. However, this reference does not fairly suggest monitoring the oxygen concentration of the ambient air surrounding the fuel cell or that the system is shut down when the value is below a threshold value. JP 7-169481 discloses a fuel cell contained within a nitrogen-filled container (1), wherein hydrogen and oxygen levels within the container are monitored and the fuel cell shut down when either level is too high. However, this reference does not fairly suggest that the enclosure contains "ambient air" or that the system is shut down when the oxygen level is below a threshold value. Accordingly, the instant claims contain allowable subject matter.

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Conclusion

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jonathan Crepeau whose telephone number is (571) 272-1299. The examiner can normally be reached Monday-Friday from 9:30 AM - 6:00 PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Randy Gulakowski, can be reached at (571) 272-1302. The phone number for the organization where this application or proceeding is assigned is (571) 272-1700. Documents may be faxed to the central fax server at (703) 872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jonathan Crepeau Patent Examiner Art Unit 1746

Art Unit 1746 May 2, 2004